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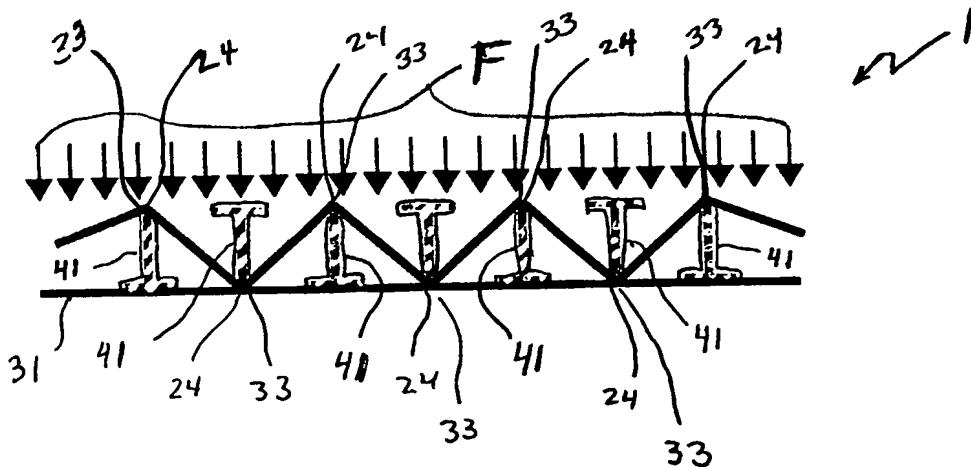
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(54) Title: METHOD FOR MANUFACTURE OF TRUSS CORE SANDWICH STRUCTURES AND RELATED STRUCTURES THEREOF



(57) Abstract: An embodiment provides a method of constructing a cellular structure having nodes therein comprising: providing at least one truss layer comprised of at least one truss unit, at least one of the truss units being comprised of truss members; providing at least one panel in mechanical communication with the at least one truss unit of the at least one truss layer, the mechanical communication defines contact regions wherein the at least one truss unit is coupled to the at least one panel; the nodes being defined as intersections existing among any of the truss members and the nodes also being defined by the contact regions; providing at least one node pin, the at least one node pin spanning between two desired nodes; and diffusion bonding at least one of the truss layer to the at least one panel. The bonding includes: applying heat, and applying force that results in the truss layer and the panel that are being bonded to be pressed together, the node pins provide support for the structure so as to concentrate or transmit the applied force onto the contact regions.

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